

Notice of Allowability**Application No.**

10/563,236

Examiner

IYABO S. ALLI

Applicant(s)

PARK, KWANG-DON

Art Unit

2877

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/15/2009.
2. ☒ The allowed claim(s) is/are 5,7-9,12-14 and 19-22.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 01/14/09
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see Remarks on pages 2-5, filed on January 15, 2009, with respect to claims 1-19 have been fully considered and are persuasive. The 103(a) rejections of claims 1-16 have been withdrawn.
2. Acknowledgement is given to canceled claims 1-4, 6, 10, 11, 15-18, 23 and 24.

Allowable Subject Matter

3. Claims **5, 7-9, 12-14** and **19-22** are allowed.
4. The following is an examiner's statement of reasons for allowance:

As to claim 5, the prior art of record, taken alone or in combination, fails to disclose or render obvious a first recognition step wherein a positional value and a characteristic value on an orthogonal coordinate of the identification particles within the random type recognition object produced in the random type recognition object-generating step are recognized from one or a number of directions on the orthogonal coordinate to complete a first data set; a second recognition step wherein the positional value and the characteristic value on the orthogonal coordinate of the identification particles distributed within the random type recognition object in which the first data set is completed in the first recognition step are recognized from one or a number of directions on the orthogonal coordinate to complete a second data set as clearly shown, in combination with the rest of the limitations of the claim.

As to claim 7, the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein the recognition object is a random type recognition

object in which identification particles are irregularly distributed within a 3D shape, and a positional value and a characteristic value of the identification particles distributed within the 3D shape are recognized from one or a plurality of directions by means of the recognition apparatus as clearly shown, in combination with the rest of the limitations of the claim.

As to claim 12, the prior art of record, taken alone or in combination, fails to disclose or render obvious three dimensional identification particles and associated first and second data set and positional value and characteristic value to be recognized from one or a plurality of directions on an orthogonal coordinate as clearly shown, in combination with the rest of the limitations of the claim.

As to claim 20, the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein identification particles are irregularly distributed within a 3D shape, and a positional value and a characteristic value of the identification particles distributed within the 3D shape as clearly shown, in combination with the rest of the limitations of the claim.

And as to claim 21, the prior art of record, taken alone or in combination, fails to disclose or render obvious wherein the recognition means recognizes the positional value of the identification particles and a characteristic value of the identification particles at the same time as clearly shown, in combination with the rest of the limitations of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Reference **2007/0170257** teaches an authentication method which is based on an authentication object, such as an authentication label, having a three-dimensional pattern of distributed particles.

However, it fails to disclose the limitations cited above in 5.

Reference **2007/0170257** teaches an authentication method which is based on an authentication object, such as an authentication label, having a three-dimensional pattern of distributed particles.

However, it fails to disclose the limitations cited above in 7.

Reference **6,774,986** teaches an apparatus that indicates the identity of a note.

However, it fails to disclose the limitations cited above in 12.

Reference **6,970,236** teaches a method for verifying the authenticity of an object.

However, it fails to disclose the limitations cited above in 20.

Reference **2007/0170257** teaches an authentication method which is based on an authentication object, such as an authentication label, having a three-dimensional pattern of distributed particles.

However, it fails to disclose the limitations cited above in 21.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to IYABO S. ALLI whose telephone number is (571) 270-1331. The examiner can normally be reached on M-Fr: 7:30am- 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Toatley can be reached on 571-272-2059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

IYABO S. ALLI
Examiner
Art Unit 2877
March 30, 2009 /I. S. A./
Examiner, Art Unit 2877

/L. G. Lauchman/
Primary Examiner, Art Unit 2877